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NOTICE OF ALLOWANCE AND FEE(S) DUE

25227 7590 12/01/2009

MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

EXAMINER	
MIRZA, ADNAN M	
ART UNIT	PAPER NUMBER
2445	

DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,603	02/22/2002	Masakatsu Kiwada	325772028100	8470

TITLE OF INVENTION: IMAGE PROCESSING METHOD, IMAGE PROCESS SYSTEM, AND RELATED EQUIPMENT USED THEREIN INCLUDING PORTABLE TERMINAL, IMAGE FORMING DATA TRANSMITTING DEVICE AND IMAGE FORMING DEVICE, AS WELL AS IMAGE PROCESSING PROGRAM AND COMPUTER READABLE RECORDING MEDIUM THAT STORES SA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25227 7590 12/01/2009

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1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,603	02/22/2002	Masakatsu Kiwada	32577028100	8470

TITLE OF INVENTION: IMAGE PROCESSING METHOD, IMAGE PROCESS SYSTEM, AND RELATED EQUIPMENT USED THEREIN INCLUDING PORTABLE TERMINAL, IMAGE FORMING DATA TRANSMITTING DEVICE AND IMAGE FORMING DEVICE, AS WELL AS IMAGE PROCESSING PROGRAM AND COMPUTER READABLE RECORDING MEDIUM THAT STORES SA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	03/01/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
MIRZA, ADNAN M	2445	709-227000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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MIRZA, ADNAN M	
ART UNIT	PAPER NUMBER
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DATE MAILED: 12/01/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 717 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 717 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/079,603	KIWADA ET AL.	
	Examiner	Art Unit	
	ADNAN MIRZA	2445	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *07/24/2009*.

2. ☒ The allowed claim(s) is/are *1,2,6-8,12-18,20-22,28,29,31,32,34,38,40 and 41*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/VIVEK SRIVASTAVA/
Supervisory Patent Examiner, Art Unit 2445

EXAMINER'S AMENDMENT

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it must be submitted no later than the payment of the issue fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Takamitsu Fujui on 11/17/09.

Please amend claims 1,2,7,8,13,15,17,18,21,22,28,29,32,34,38,40,41 and cancel claims 3,4,5,9-11,19,23,25-27,30,33,35-37,39.

Listing of Claims

1. (Currently Amended) An image processing method for printing images on an image printing device based on a file stored in an image data transmission device using a portable terminal, said image data transmission device connected to a first internal network provided behind a first firewall, said image printing device connected to a second internal network provided behind a second firewall, and a file server connected to an external network provided outside of said first firewall and said second firewall, comprising:

said portable terminal establishing a connection with said image data transmission device via said second internal network, said second firewall, said external network, said first firewall and said first internal network, wherein establishing the connection comprises using a protocol which allows a first bi-directional conn

ection between the first internal network and the external network and a second bi-directional connection between the second internal network and the external network;

said portable terminal transmitting an image printing request to said image data transmission device, wherein said image printing request identifies said stored file;

said image data transmission device receiving said image printing request and preparing a print job to print images associated with said stored file in response to said image printing request;

said image data transmission device establishing a connection with said file server via said first internal network, said first firewall, and said external network using a protocol which allows only uni-directional connections from the first internal network to the external network at said first firewall;

said image data transmission device uploading said prepared print job to said file server;

said file server transmitting a storage location data indicating where said print job uploaded by said image data transmission device is stored on said file server to said portable terminal,

said portable terminal receiving said storage location data which said file server transmitted,

said portable terminal transferring said received storage location data to said image printing device via said second internal network or a local communication circuit,

said image printing device receiving said storage location data transferred by said portable terminal,

said image printing device establishing a connection with said file server via said second internal network, said second firewall, and said external network using a protocol which allows only uni-directional connections from the second internal network to the external network at said second firewall;

said image printing device downloading said prepared print job from the storage location on said file server based on said storage location data; and

said image printing device printing images based on said downloaded print job.

2. (Currently Amended) An image processing method according to claim 1 further comprising:

said portable terminal displaying said storage location data which said file server transmitted.

3-4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) An image processing method according to claim 1 wherein said image printing device is a printer.

7. (Currently Amended) An image processing method for forming an image on an image printing device based on a file stored in an image data transmission device using a portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a

second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, comprising:

said portable terminal establishing a connection with said image data transmission device via a public network, a public network authenticating server connected to said first internal network, and said first internal network;

said portable terminal transmitting an image printing request for said file stored in said image data transmission device to said image data transmission device;

said image data transmission device receiving said image printing request transmitted by said portable terminal and preparing an print job for said file according to said image printing request;

said image data transmission device establishing a connection with said file server via said first internal network, said first firewall, and said external network using a protocol, which allows connections only from the first internal network to the external network at said first firewall;

said image data transmission device uploads said prepared print job to said file server;

said file server transmitting a storage location data indicating where said print job uploaded by said image data transmission device is stored on said file server to said portable terminal,

said portable terminal receiving said storage location data which said file server transmitted,

said portable terminal transferring said received storage location data to said image printing device via said second internal network or a local communication circuit,

said image printing device receiving said storage location data transferred by said portable terminal,

said image printing device establishing a connection with said file server via said second internal network, said second firewall, and said external network using a protocol, which allows connections only from the second network to the external network at said second firewall;

said image printing device downloading said print job from the storage location on said file server based on said storage location data; and

said image printing device forming said image based on said downloaded print job.

8. (Currently Amended) An image processing method according to claim 7 further comprising:

said portable terminal displaying said storage location data which said file server transmitted.

9-11. (Cancelled)

12. (Previously Presented) An image processing method according to claim 7 wherein said image printing device is a printer.

13. (Currently Amended) An image processing system for forming an image on an image printing device based on a file stored in an image data transmission device, using a portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, wherein:

said portable terminal comprises,

a first connection establisher to establish a connection with said image data transmission device via said second internal network, said second firewall, said external network, said first firewall and said first internal network using a protocol, which allows bi-directional connections between the first internal network and the external network at said first firewall and said second firewall, and

an image printing request transmitter to transmit an image printing request for said file stored in said image data transmission device to said image data transmission device;

said image data transmission device comprises,

an image printing request receiver to receive said image printing request from said portable terminal,

an print job preparer to prepare an print job for said file based on said image printing request received by said image printing request receiver,

a second connection establisher to establish a connection with said file server via said first internal network, said first firewall, and said external network using a protocol, which allows connections only from the first internal network to the external network at said first firewall, and

a print job uploader to upload said print job prepared by said print job preparer to said file server; and

said image printing device comprises,

a third connection establisher to establish a connection with said file server via said second internal network, said second firewall, and said external network using a protocol, which allows connections only from the second internal network to the external network at said second firewall,

a print job downloader to download said print job from said file server, and

an image former to form said image based on said print job downloaded by said print job downloader,

wherein said image processing system is so configured that

said file server transmits a storage location data indicating where said print job uploaded by said print job uploader on said file server to said portable terminal,

said portable terminal receives said storage location data which said file server transmitted,

said portable terminal transfers said received storage location data to said image printing device via said second internal network or a local communication circuit,

said image printing device receives said storage location data transferred by said portable terminal, and

said print job downloader downloads said print job from the storage location on said file server based on said storage location data.

14. (Previously Presented) An image processing system according to claim 13 wherein said image printing device is a printer.

15. (Currently Amended) An image processing system for forming an image on an image printing device based on a file stored in an image data transmission device, using a portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, wherein

said portable terminal comprises,

a first connection establisher to establish a connection with said image data transmission device via a public network, a public network authenticating server connected to said first internal network, and said first internal network, and

an image printing request transmitter to transmit an image printing request for said file stored in said image data transmission device to said image data transmission device;

said image data transmission device comprises,

an image printing request receiver to receive said image printing request from said portable terminal,

a print job preparer to prepare a print job for said file based on said image printing request received by said image printing request receiving means,

a second connection establisher to establish a connection with said file server via said first internal network, said first firewall, and said external network using a protocol, which allows connections only from the first network to the external network at said first firewall, and

a print job uploader to upload said print job prepared by said print job preparing means to said file server; and

said image printing device comprises,

a third connection establisher to establish a connection with said file server via said second internal network, said second firewall, and said external network using a protocol, which allows connections only from the second internal network to the external network at said second firewall,

a print job downloader to download said print job from said file server, and

an image former to form said image based on said print job downloaded by said print job downloader,

wherein said image processing system is so configured that

said file server transmits a storage location data indicating where said print job uploaded by said print job uploader is stored on said file server to said portable terminal,

said portable terminal receives said storage location data which said file server transmitted,

said portable terminal transfers said received storage location data to said image printing device via said second internal network or a local communication circuit,

said image printing device receives said storage location data transferred by said portable terminal, and

said print job downloader downloads said print job from the storage location on said file server based on said storage location data.

16. (Previously Presented) An image processing system according to claim 15 wherein said image printing device is a printer.

17. (Currently Amended) A portable terminal for forming an image on an image printing device based on a file stored in an image data transmission device, using said portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, comprising:

a connection establisher to establish a connection with said image data transmission device via said second internal network, said second firewall, said

external network, said first firewall and said first internal network using a protocol, which allows bi-directional connections between the first network and the external network at said first firewall and said second firewall; and

an image printing request transmitter to transmit an image printing request for said file stored in said image data transmission device to said image data transmission device,

wherein said portable terminal is so configured as to receive a storage location data transmitted by said file server and indicating where a print job uploaded by said image data transmission device is stored on said file server and as to transfer said received storage location data to said image printing device via said second internal network or a local communication circuit.

18. (Currently Amended) A portable terminal according to claim 17 further comprising:

a storage location data display to display said received storage location data.

19. (Cancelled)

20. (Previously Presented) A portable terminal according to claim 17 wherein said image printing device is a printer.

21. (Currently Amended) A portable terminal for forming an image on an image printing device based on a file stored in an image data transmission device, using said portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, comprising:

a connection establisher to establish a connection with said image data transmission device via a public network, a public network authenticating server connected to said first internal network, and said first internal network; and

an image printing request transmitter to transmit an image printing request for said file stored in said image data transmission device to said image data transmission device,

wherein said portable terminal is so configured as to receive a storage location data transmitted by said file server and indicating where a print job uploaded by said image data transmission device is stored on said file server and as to transfer said received storage location data to said image printing device via said second internal network or a local communication circuit.

22. (Currently Amended) A portable terminal according to claim 21 further comprising:

a storage location data display to display said received storage location data received.

23. (Cancelled)

24. (Previously Presented) A portable terminal according to claim 17 wherein said image printing device is a printer.

25-27. (Cancelled)

28. (Currently Amended) An image printing device for forming an image based on a file stored in an image data transmission device, using a portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, comprising:

a connection establisher to establish a connection with said file server via said second internal network, said second firewall, and said external network using a protocol, which allows connections only from the second internal network to the external network at said second firewall;

a print job downloader to download from said file server a print job for said file uploaded by said image data transmission device to said file server; and

an image printing device to form said image based on said print job downloaded by said print job downloader,

wherein said printing device is so configured as to receive a storage location data transferred by said portable terminal and indicating where a print job uploaded by said print job uploader is stored on said file server, said storage location data being transmitted to said portable terminal by said file server.

29. (Currently Amended) An image printing device according to claim 28 wherein said print job downloader downloads said print job from the storage location on said file server based on said received storage location data.

30. (Cancelled)

31. (Previously Presented) An image printing device according to claim 28 wherein said image printing device is a printer.

32. (Currently Amended) A recording medium that stores a program to control a portable terminal for forming an image on an image printing device based on a file stored in an image data transmission device, using said portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall

and said second firewall, characterized in causing said portable terminal to execute:

establishing a connection with said image data transmission device via said second internal network, said second firewall, said external network, said first firewall and said first internal network using a protocol, which allows bi-directional connections between the first internal network and the external network at said first firewall and said second firewall, [[and]]

transmitting an image printing request for said file stored in said image data transmission device to said image data transmission device,

receiving a storage location data transmitted by said file server and indicating where a print job uploaded by said image data transmission device is stored on said file server, and

transferring said received storage location data to said image printing device via said second internal network or a local communication circuit.

33. (Canceled).

34. (Currently Amended) A recording medium that stores a program to control a portable terminal for forming an image on an image printing device based on a file stored in an image data transmission device, using said portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, characterized in causing said portable terminal to execute:

establishing a connection with said image data transmission device via a public network, a public network authenticating server connected to said first internal network, and said first internal network, [[and]]

transmitting an image printing request for said file stored in said image data transmission device to said image data transmission device,

receiving a storage location data transmitted by said file server and indicating where a print job uploaded by said image data transmission device is stored on said file server, and

transferring said received storage location data to said image printing device via said second internal network or a local communication circuit.

35-37. (Canceled).

38. (Currently Amended) A recording medium that stores a program to control an image printing device for forming an image based on a file stored in an image data transmission device, using a portable terminal, said image data transmission device connected to a first internal network constructed inside a first firewall, said image printing device connected to a second internal network constructed inside a second firewall, and a file server connected to an external network constructed on the outside of said first firewall and said second firewall, characterized in causing said image printing device to execute:

establishing a connection with said file server via said second internal network, said second firewall and said external network using a protocol, which allows connections only from the second internal network to the external network at said second firewall;

downloading from said file server a print job for said file uploaded by said image data transmission device to said file server; [[and]]

printing based on said print job;

receiving a storage location data transferred by said file server and indicating where a print job uploaded by said image data transmission device is stored on said file server.

39. (Canceled).

40. (Currently Amended) A remote printing method, comprising:

providing a first network comprising an image storage device and a first firewall, the image storage device being provided behind the first firewall;

providing a second network comprising a printing device and a second firewall, the printing device being provided behind the second firewall;

providing an external network comprising a file server;

storing an image file in the image storage device;

forming a bi-directional connection between a portable terminal and the image storage device, the bi-directional connection being formed through the second network, the second firewall, the external network, the first firewall and the first network;

transmitting a file reference request from the portable terminal to the image storage device via the bi-directional connection;

transmitting file image information from the image storage device to the portable device via the bi-directional connection in response to the file reference request;

transmitting an image printing request from the portable terminal to the image forming device via the bi-directional connection, the image printing request comprising printing instructions;

forming a print job at the image storage device in response to the image printing request;

forming a first uni-directional connection between the image storage device and the file server through the first firewall;

transmitting the print job from the image storage device to the file server via the first uni-directional connection;

storing the print job in the file server;

forming a second uni-directional connection between the file server and the printing device through the second firewall;

transmitting the print job from the file server to the printing device via the second uni-directional connection;

printing images using the printing device, the images being based on the print job, wherein

said file server transmits a storage location data indicating where said print job is stored on said file server to said portable terminal,

said portable terminal receives said storage location data which said file server transmitted,

said portable terminal transfers said received storage location data to said printing device via said second internal network or a local communication circuit,

said printing device receives said storage location data transferred by said portable terminal, and

said printing device downloads said print job from said storage location on said file server based on said storage location data.

41. (Currently Amended) A remote printing system, comprising:

a first network comprising an image storage device and a first firewall, the image storage device being provided behind the first firewall and configured to store an image file;

a second network comprising a printing device and a second firewall, the printing device being provided behind the second firewall;

an external network comprising a file server; and

a portable terminal;

wherein the system is configured to form a bi-directional connection between the portable terminal and the image storage device through the second network, the second firewall, the external network, the first firewall and the first network, such that

a file reference request may be transmitted from the portable terminal to the image storage device via the bi-directional connection;

file image information may be transmitted from the image storage device to the portable device via the bi-directional connection in response to the file reference request; and

an image printing request may be transmitted from the portable terminal to the image forming device via the bi-directional connection, the image printing request comprising printing instructions;

wherein the image storage device is configured to form a print job at in response to the image printing request;

wherein the system is further configured to form a first uni-directional connection between the image storage device and the file server through the first firewall and to transmit the print job from the image storage device to the file server via the first uni-directional connection;

wherein the file server is configured to store the print job;

wherein the system is further configured to form a second uni-directional connection between the file server and the printing device through the second

firewall and to transmit the print job from the file server to the printing device via the second uni-directional connection; [[and]]

wherein the printing device is configured to print images based on the print job;

wherein said file server is configured to transmit a storage location data indicating where said print job is stored on said file server to said portable terminal,

wherein said portable terminal is configured to receive said storage location data which said file server transmitted,

wherein said portable terminal is configured to transfer said received storage location data to said printing device via said second internal network or a local communication circuit,

wherein said printing device is configured to receive said storage location data transferred by said portable terminal, and

wherein said printing device is configured to download said print job from said storage location on said file server based on said storage location data.

Reasons for Allowance

1. Claims 1-2,6-8,12-18,20-22,28-29,31,32,34,38,40,41 will be allowed.

2. The following is an examiner's statement of reasons for allowance.

The prior art references most closely resembling the applicants claimed invention are Gore, Jr et al (U.S. 5,826,029) and Lazaridis (U.S. 7,000,001).

First, Gore Jr disclosed a computer implemented method, uniquely programmed computer system and article of manufacture embodying computer readable program means all allow a customer on an external network to initiate an authorized business transaction utilizing internal business resources on an internal network without violating security walls. However Gore Jr failed to disclose, "said file server transmitting a storage location data indicating where said print job uploaded by said image data transmission device is stored on said file server to said portable terminal, said portable terminal receiving said storage location data which said file server transmitted, said portable terminal transferring said received storage location data to said image printing device via said second internal network or a local communication circuit, said image printing device receiving said storage location data transferred by said portable terminal ". These limitations are incorporated into all of the independent claims (claims1,7,13,15,17,21,28,32,34,38,40,41).

Second Lazaridis disclosed a bookmark beacon system comprises a computer network a wireless network configured to enable a wireless device to access the computer network, and a bookmark beacon that transmits a bookmark data packet to the wireless device. However Lazaridis failed to disclose ""said file server transmitting a storage location

data indicating where said print job uploaded by said image data transmission device is stored on said file server to said portable terminal, said portable terminal receiving said storage location data which said file server transmitted, said portable terminal transferring said received storage location data to said image printing device via said second internal network or a local communication circuit, said image printing device receiving said storage location data transferred by said portable terminal ". These limitations are incorporated into all of the independent claims (claims1,7,13,15,17,21,28,32,34,38,40,41).

In summary, the Examiner submits that Gore Jr and Lazaridis taught all the limitations of independent claims in combination with other elements. Specifically prior art does not teach "said file server transmitting a storage location data indicating where said print job uploaded by said image data transmission device is stored on said file server to said portable terminal, said portable terminal receiving said storage location data which said file server transmitted, said portable terminal transferring said received storage location data to said image printing device via said second internal network or a local communication circuit, said image printing device receiving said storage location data transferred by said portable terminal; therefore, claims 1-2,6-8,12-18,20-22,28-29,31,32,34,38,40,41 have been deemed allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adnan Mirza whose telephone number is (571) 272-3885. The examiner can normally be reached on Monday through Friday from 9:30 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Vivek Srivastava can be reached on (571)-272-7304. The fax phone

numbers for the organization where this application or proceeding is assigned are listed herein below.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)746-7239. Customer service number is (866) 217-9197.

/VIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445